NOV 0 3 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant

Huazhou Lou

Appln. No.

10/631,919

Filed

: July 31, 2003

Title

: DYNAMIC MEASUREMENT OF HEAD

MEDIA SPACING MODULATION

Docket No.

169.12-0592

Group Art Unit: 2651

Examiner: Fred Tzeng

CERTIFICATION OF TELEFACSIMILE TRANSMISSION

571-271-8300-571-273-8400

Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450

I certify that the following papers are being telefacsimile transmitted to the U.S. Patent and

Trademark Office on the date shown below:

- 1. Letter to Examiner;
- 2. Reference AT of Information Disclosure Statement;
- 3. Copy of Information Disclosure Statement filed 7/31/03; and
- 4. Copy of postcard dated 7/31/03.

KINNEY & LANGE, P.A.

Date: 1/3/6

Dina M. Khaled, Reg. No. 52,761

worn Khales

THE KINNEY & LANGE BUILDING

312 South Third Street

Minneapolis, MN 55415-1002

Telephone: (612) 339-1863

Fax: (612) 339-6580

DMK:kmm

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LETTER

Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450 SENT VIA FACSIMILE Facsimile No.: 571-271-8300

571-273-8400

Dear Examiner Tzeng:

Thank you for taking time to discuss the above-referenced application with me yesterday. Pursuant to our conversation, please find attached a copy of reference AT of the Information Disclosure Statement (IDS) submitted on July 31, 2003. As we discussed, our return postcard confirms receipt of the IDS and its identified twenty (20) cited references by the U.S. Patent and Trademark Office on July 31, 2003. It appears that you did not receive a copy of this reference. Thus, I have attached hereto copies of reference AT, the date-stamped return postcard, and the July 31, 2003 Information Disclosure Statement. I appreciate your willingness to now review reference AT. If you have any questions or concerns, please do not hesitate to give me a call.

> Respectfully submitted, KINNEY & LANGE, P.A.

Date: 4/3/05

Just M/ Khales Dina M. Khaled, Reg. No. 52,761

THE KINNEY & LANGE BUILDING

312 South Third Street

Minneapolis, MN 55415-1002

Telephone: (612) 339-1863

Fax: (612) 339-6580

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NOV 0 3 2005

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First Named

Inventor

: Huazhou Lou et al.

Appin. No.

Filed

Title

Herewith

DYNAMIC MEASUREMENT OF HEAD MEDIA

SPACING MODULATION

Docket No.

169.12-0592

ICERTIFY THAT THIS PAPER IS BEING SENT BY EXPRESS MAIL, TO THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231, THIS 31 DAY OF

Group Art Unit:

Examiner:

Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The enclosed PTO Form-1449 lists patents and publications submitted pursuant to 37 C.F.R. 1.97. Copies of the patents or publications are enclosed as necessary.

INFORMATION DISCLOSURE STATEMENT

This application relies, under 35 U.S.C. 120, on the earlier filing date of prior Application No. _, filed on _. The following references, listed on the enclosed PTO Form 1449 were submitted to and/or cited by the Office in the prior application; therefore, under 37 C.F.R. 1.98(d), copies are not required to be provided herewith:

Submitted herewith is a copy (with English translation as appropriate) of an Official Search Report of the _ Patent Office in counterpart foreign Application No. _ filed _.

The following foreign language documents and English language documents are believed to be equivalent or substantially equivalent:

FOREIGN LANGUAGE

ENGLISH LANGUAGE

TIME OF FILING

The Information Disclosure Statement is being filed:

1. X with the application or within three months of the filing date of a national application (other than a continued prosecution application under 37 C.F.R. 1.53(d)) or date of entry into the national stage of an international application or, to the best of the undersigned's knowledge, before the mailing date of a first Office action on the merits or a first office action after the filing of a request for continued examination under 37 C.F.R. 1.114, whichever event occurs last. In accordance with 37 C.F.R.

-2-

Sheet 1 of 2

1.97(b), no certification or fee is required.

after the time period specified in paragraph 1 above, but, to the best of the undersigned's knowledge, before the mailing date of a final action under 37 C.F.R. 1.113 or notice of allowance under 37 C.F.R. 1.311, or an action that otherwise closes prosecution of the application. In accordance with 37 C.F.R. 1.97(c), submitted herewith is:

(check either A or B below)

- A. _ a statement as specified in 37 C.F.R. 1.97(e), no fee is required.
- B. _ the fee set forth in 37 C.F.R. 1.17(p) for submission of an Information Disclosure Statement under 37 C.F.R. 1.97(c).
- after the mailing date of either a final action under 37 C.F.R. 1.113 or a Notice of Allowance under 37 C.F.R. 1.311, whichever occurs first, but on or before payment of the issue fee. Applicant petitions for consideration of this Information Disclosure Statement pursuant to 37 C.F.R. 1.97(d)(2). Applicant submits herewith:
 - A. a statement as specified in 37 C.F.R. 1.97(e); and
 - B. the fee set forth in 37 C.F.R. 1.17(p).

Respectfully submitted,

KINNEY & LANGE, P.A.

Rv:

Paul P. Kempf, Reg. No. 39,727 THE KINNEY & LANGE BUILDING 312 South Third Street

Minneapolis, MN 55415-1002 Telephone: (612) 339-1863

Fax: (612) 339-6580

PPK::ks

Sheet 1 of 1

FORM PTO-1449	Atty. Docket No.: 169.12-0592	Application No.:
LIST OF PATENTS AND PUBLICATIONS FOR	First Named Inventor: Huazhou Lou et al.	
APPLICANTS INFORMATION DISCLOSURE STATEMENT	Filing Date: Herewith	Group Art:

U.S. PATENT DOCUMENTS

Examiner Initials	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents
AA	4,777,544	10-11-1988	Brown et al.
AB	5,130,866	07-14-1992	Klaassen et al.
AC	5,377,058	12-27-1994	Good et al.
AD	5,410,439	04-25-1995	Egbert et al.
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AF	6,191,901 B1	02-20-2001	Carlson et al.
AG	6,249,393 B1	06-19-2001	Billings et al.
АН	6,268,976 B1	07-31-2001	Carlson et al.
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AK	6,459,539 B1	10-01-2002	Carlson et al.
AL	6,519,102 BI	02-11-2003	Smith et al.

FOREIGN PATENT DOCUMENTS

Foreign Patent	Publication Date	Name of Patentee or Applicant of	Translation
Document	MM-DD-YYYY	Cited Documents	Yes No

	L DATE CONSIDERED:
AND AND INTO	DATE CONSIDERED:
CV A MINIER ·	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

4-

Sheet 1 of 2

FORM PTO-1449	Atty. Docket No.: I69.12-0592	Application No.:
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor: Huazhou Lou et al.	
	Filing Date: Herewith	Group Art:

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	R. L. Wallace, Jr., The Reproduction of Magnetically Recorded Signals, Pages 1145-1173		
AO	Klaas B. Klaassen, Fellow, IEEE, and Jack C. L. van Peppen, Member, IEEE Head-Medium Clearance and Lateral Track Registration of a Recording Head as Measured from the Readback Signal, January 2001 Pages 575-582		
АР	Bruce C. Schardt, Erhard Schreck, Richard Sonnenfeld, Quinn Haddock and John R. Haggis, Flying Height Measurement while Seeking in Hard Disk Drives, July 1998 Pages 1765-1767		
AQ	V. J. Novotny and MJ. Hsiao, Sensitive Magnetic Readback Head-Disk Spacing Measurements in Recording Drives, July 1998, Pages 1762-1764		
AR	Robert Eaton and Michael Baldwinson, Imaging of Media Lubricant Spacing Contributions by Readback Signal Analysis, January 1997, Pages 974-977		
AS	Youping Deng, Hsiao-chu Tsai, and Brian J. Nixon, Drive-Level Flying Height Measurements and Altitude Effects, November 1994, Pages 4191-4193		
AT	Y. Ohtsubo, N. Kawashima and H. Marumo, Measurement Method for the Spacing Fluctuation of a Head Slider in a Magnetic Disk Drive, September 1987, Pages 3450-3452		
AU	W. K. Shi, L. Y. Zhu, and D. B. Bogy, Use of Readback Signal Modulation to Measure Head/Disk Spacing Variations in Magnetic Disk Files, January 1987, Pages 233-240		
EXAMINER:	DATE CONSIDERED:		

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE Thereby acknowledged by the Assistant Commissioner Rec is of the following items in the patent application of: 165 952 Applicant : Huazhou Lou et al. : Herewith

Filed

For

: DYNAMIC MEASUREMENT OF HEAD MEDIA SPACING

MODULATION Docket No.: 169.12-0592

Patent Application (14 pages) with Drawings (8 pages) Check in the amount of \$790.00 and one for \$40.00 2.

Utility Patent Application Transmittal 3.

4. Fee Transmittal (in duplicate) Declaration For Utility Patent Application 5.

Assignment Recordation Sheet with attached Assignment

7. Power of Attorney

Submission Under 37 C.F.R. 3.73(b) with attached Assignment 8.

File Data Sheet 9.

Information Disclosure Statement 10.

Twenty (20) Cited References

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July 31, 2003

21909 U.S. PTO